

ABSTRACT

A blood pump system includes a blood pump having a motor with a rotor and a stator. The stator has a plurality of stator windings situated therein. A motor controller is coupled to the motor, and a processor has inputs coupled to the motor controller for
s receiving a time continuous signal from the pump. The processor is programmed to transform the time continuous signal to the frequency domain, and control the pump and detect excess suction in response to the time continuous signal in the frequency domain.